

Appl. No. 10/650,401
Amdt. dated August 22, 2006
Reply to Office Action of 5/22/06

PATENT
Docket: 030145

IN THE CLAIMS

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Please amend the claims as follows:

1. (Currently amended) A device in a wireless communication system, comprising:
 - a reselection unit operative to provide an indication to perform cell reselection from a first base station to a second base station;
 - a control unit operative to initiate a cell reselection procedure for the second base station in response to the indication from the reselection unit, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell; and
 - a monitoring unit operative to receive from the second base station sufficient system information to process a paging channel for the second base station, ~~and to start monitoring the paging channel upon reception of the sufficient system information from the second base station and prior to completion of the cell reselection procedure, and to monitor the paging channel during time intervals determined based on the sufficient system information to detect for paging messages sent by the second base station to the device.~~
2. (Original) The device of claim 1, wherein the control unit is operative to direct reception of full system information for the second base station in order to complete the cell reselection procedure and for two-way communication with the second base station.
3. (Original) The device of claim 1, wherein the monitoring unit is operative to receive a paging message on the paging channel for the second base station prior to completion of the cell reselection procedure and to respond to the paging message via the second base station after completion of the cell reselection procedure.
4. (Original) The device of claim 1, wherein the monitoring unit is operative to receive a paging message on the paging channel for the second base station prior to completion of the cell reselection procedure, abort the cell reselection procedure, and respond to the paging message via the first base station.

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5. (Original) The device of claim 1, wherein the wireless communication system is a Global System for Mobile Communications (GSM) system.

6. (Original) The device of claim 5, wherein the sufficient system information is System Information Type 3 in GSM.

7. (Currently amended) An apparatus in a wireless communication system, comprising:

means for providing an indication to perform cell reselection from a first base station to a second base station;

means for performing a cell reselection procedure for the second base station in response to the indication to perform cell reselection, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell;

means for receiving from the second base station sufficient system information to process a paging channel for the second base station; and

means for starting monitoring of the paging channel upon receiving the sufficient system information from the second base station and prior to completing the cell reselection procedure; and

means for monitoring the paging channel during time intervals determined based on the sufficient system information to detect for paging messages sent by the second base station to the apparatus.

8. (Original) The apparatus of claim 7, further comprising:

means for receiving a paging message on the paging channel for the second base station prior to completing the cell reselection procedure; and

means for responding to the paging message via the second base station after full system information has been received.

9. (Original) The apparatus of claim 7, further comprising:

means for receiving a paging message on the paging channel for the second base station prior to completing the cell reselection procedure;

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means for aborting the cell reselection procedure; and
means for responding to the paging message via the first base station.

10. (Currently amended) A method of performing cell reselection at a device in a wireless communication system, comprising:

providing an indication to perform cell reselection from a first base station to a second base station;

performing a cell reselection procedure for the second base station in response to the indication to perform cell reselection, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell;

receiving from the second base station sufficient system information to process a paging channel for the second base station; and

starting monitoring of the paging channel upon receiving the sufficient system information from the second base station and prior to completing the cell reselection procedure; and

monitoring the paging channel during time intervals determined based on the sufficient system information to detect for paging messages sent by the second base station to the device.

11. (Currently amended) A processor readable media for storing instructions operable in a wireless device to:

provide an indication to perform cell reselection from a first base station to a second base station in a wireless communication system;

perform a cell reselection procedure for the second base station in response to the indication to perform cell reselection, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell;

receive from the second base station sufficient system information to process a paging channel for the second base station; and

start monitoring of the paging channel for the second base station upon receiving the sufficient system information from the second base station and prior to completing the cell reselection procedure; and

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direct monitoring of the paging channel during time intervals determined based on the sufficient system information to detect for paging messages sent by the second base station to the wireless device.

12. (Currently amended) A device in a wireless communication system, comprising:

a reselection unit operative to provide an indication to perform cell reselection from a first base station to a second base station; and

a control unit operative to, in response to the indication from the reselection unit, direct reception of designated system information from a control channel for the second base station, and

if the designated system information from the second base station is received successfully, switch to the second base station and initiate a cell reselection procedure for the second base station, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell, and

skip the cell reselection procedure if the designated system information is not received successfully.

13. (Original) The device of claim 12, wherein the control unit is operative to direct reception of full system information for the second base station in order to complete the cell reselection procedure and for two-way communication with the second base station.

14. (Original) The device of claim 12, further comprising:

a monitoring unit operative to obtain, from the designated system information, sufficient system information to process a paging channel for the second base station and to initiate monitoring of the paging channel when the cell reselection procedure is initiated.

15. (Original) The device of claim 12, further comprising:

a monitoring unit operative to receive sufficient system information to process a paging channel for the second base station and to initiate monitoring of the paging channel

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upon reception of the sufficient system information and prior to completion of the cell reselection procedure.

16. (Original) The device of claim 12, wherein the wireless communication system is a Global System for Mobile Communications (GSM) system.

17. (Original) The device of claim 16, wherein the control channel is a broadcast control channel (BCCH), and wherein the designated system information is System Information Type 3 or System Information Type 4 in GSM.

18. (Currently amended) An apparatus in a wireless communication system, comprising:

means for providing an indication to perform cell reselection from a first base station to a second base station;

means for receiving and decoding designated system information from a control channel for the second base station in response to the indication to perform cell reselection; and

means for, if the designated system information from the second base station is decoded successfully, switching over to the second base station and performing a cell reselection procedure for the second base station, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell; and

means for skipping the cell reselection procedure if the designated system information is not decoded successfully.

19. (Previously presented) The apparatus of claim 18, further comprising:

means for starting monitoring of a paging channel for the second base station upon receiving sufficient system information to process the paging channel and prior to completing the cell reselection procedure.

20. (Currently amended) A method of performing cell reselection in a wireless communication system, comprising:

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providing an indication to perform cell reselection from a first base station to a second base station;

receiving and decoding designated system information from a control channel for the second base station in response to the indication to perform cell reselection; and

if the designated system information from the second base station is decoded successfully,

switching over to the second base station, and

performing a cell reselection procedure for the second base station, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell; and

skipping the cell reselection procedure if the designated system information is not decoded successfully.

21. (Original) The method of claim 20, wherein the designated system information includes sufficient system information to process a paging channel for the second base station, the method further comprising:

starting monitoring of the paging channel for the second base station upon performing the cell reselection procedure.

22. (Original) The method of claim 20, further comprising:

receiving sufficient system information to process a paging channel for the second base station; and

starting monitoring of the paging channel for the second base station upon receiving the sufficient system information and prior to completing the cell reselection procedure.

23. (Currently amended) A device in a wireless communication system, comprising:

a reselection unit operative to provide an indication to perform cell reselection from a first base station to a second base station;

a control unit operative to initiate a cell reselection procedure for the second base station in response to the indication from the reselection unit, wherein the first base station is

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a current serving cell and the cell reselection procedure selects the second base station as a new serving cell; and

a monitoring unit operative to monitor a first paging channel for the first base station until a terminating event occurs at a time instant after the cell reselection procedure is initiated, to receive from the second base station sufficient system information to process a second paging channel for the second base station, and to monitor the second paging channel upon receiving the sufficient system information from the second base station and during time intervals determined based on the sufficient system information, wherein the monitoring of the first paging channel and the monitoring of the second paging channel overlap in time.

24. (Original) The device of claim 23, wherein the control unit is operative to direct reception of full system information for the second base station in order to complete the cell reselection procedure and for two-way communication with the second base station.

25. (Original) The device of claim 23, wherein the terminating event is reception of a first paging message on the second paging channel.

26. (Original) The device of claim 23, wherein the control unit is further operative to initiate registration with the second base station.

27. (Original) The device of claim 26, wherein the terminating event is the registration with the second base station.

28. (Original) The device of claim 23, wherein the wireless communication system is a Global System for Mobile Communications (GSM) system.

29. (Original) The device of claim 28, wherein the sufficient system information is System Information Type 3 received via a broadcast control channel (BCCH).

30. (Currently amended) An apparatus in a wireless communication system, comprising:

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means for providing an indication to perform cell reselection from a first base station to a second base station;

means for performing a cell reselection procedure for the second base station in response to the indication to perform cell reselection, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell;

means for monitoring a first paging channel for the first base station until a terminating event occurs at a time instant after the cell reselection procedure is initiated;

means for receiving from the second base station sufficient system information to process a second paging channel for the second base station; and

means for monitoring the second paging channel upon receiving the sufficient system information from the second base station and during time intervals determined based on the sufficient system information, wherein the monitoring of the first paging channel and the monitoring of the second paging channel overlap in time.

31. (Currently amended) A method of performing cell reselection in a wireless communication system, comprising:

providing an indication to perform cell reselection from a first base station to a second base station;

performing a cell reselection procedure for the second base station in response to the indication to perform cell reselection, wherein the first base station is a current serving cell and the cell reselection procedure selects the second base station as a new serving cell;

monitoring a first paging channel for the first base station until a terminating event occurs at a time instant after the cell reselection procedure is initiated;

receiving from the second base station sufficient system information to process a second paging channel for the second base station; and

monitoring the second paging channel upon receiving the sufficient system information from the second base station and during time intervals determined based on the sufficient system information, wherein the monitoring of the first paging channel and the monitoring of the second paging channel overlap in time.

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32. (Previously presented) The device of claim 1, wherein the cell reselection procedure is initiated when the device is in an idle mode.

33. (Previously presented) The device of claim 1, wherein no transmissions are sent to the first or second base station for the cell reselection procedure.

34. (New) The device of claim 1, wherein the control unit is further operative to use the sufficient system information to determine paging blocks assigned to the device by the second base station, and wherein the monitoring unit is operative to monitor the paging channel during the assigned paging blocks to detect for paging messages sent by the second base station to the device.

35. (New) The device of claim 1, wherein the monitoring unit is operative to receive the sufficient system information from a broadcast control channel for the second base station.